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S Dar, MJ Franklin, BT Jonsson, D Srivastava, ... on Very Large Data ..., 1996 - Citeseer
We propose a **semantic** model for client-side **caching** and **replace**-ment in a client-serverdatabasesystemand
comparethis approach to page **caching** and tuple **caching** strategies. Our **caching** model is based
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Q Ren, MH Dunham - Proceedings of the 6th annual international ..., 2000 - portal.acm.org
... Another different **replacement** policy is used in [3]. The victim is selected according to the access
probabilities which are predicted by observing the **data** access history. Moreover, [5] utilizes
**semantic** locality in **semantic caching replacement**. For each **cached semantic** ...
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... DBProxy's local **data cache** is a stand-alone database engine that maintains partial but
**semantically** con- sistent materialized views of previous query results. ... The common table adds
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... of this possibility can significantly enhance the performance of location-dependent **data caching**.
As a matter of fact, the invalidation information in our methods can be considered a kind of
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... For example, the performance of page level **caching** is extremely sensitive to teh way **data** is
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... We use similar ideas in our **replace**-ment policies. ... and the notion of **semantic data**
regions is natural. One of the drawbacks of **semantic caching** is that the **cache** has
to main- tain information about the **cached semantic** regions. ...
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... Each **cache** fragment is associated with a **semantic** description and a summarized profile of access

pat- terns for **cache** management. **...** Maintaining a coarse **cache** fragment by **caching** all **data** items
of a result will affect **cache** hit and **cache** utilization, since not all **data** items **...**
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**...** regions. A **semantic** region groups together **semantically** related **data** covered, for
exam- ple, by a user query. Moreover, the access informa- tion and **cache**
**replacement** are managed at a unit of **semantic** regions [14]. When **...**
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